SHARP®

DESIGN GUIDE for

Built-in Appliances

INSIGHT·PRO®

Insight®

ONLY SHARP EXTENDS YOUR KITCHEN DESIGN OPTIONS IN SO MANY NEW WAYS.

Every kitchen needs a microwave — but where should it go? With so many microwave ovens to choose from, which type best suits your needs or those of your client? Whether you are designing a kitchen in a new home, remodeling an older kitchen or simply replacing a current microwave, this guide will help you choose the best microwave for your kitchen design — and help you install it properly.

Sharp is a leader in developing innovative solutions for microwave placement. So who else but Sharp could reinvent the microwave oven for today's kitchens? Options include Over the Counter® Microwaves, Over the Range, built-in or countertop models and now, a complete line of Microwave Drawer® Solutions — the most innovative ideas yet for where to place the microwave.

Over the Range "OTR" Microwaves — An OTR over a range or cooktop provides the additional functions of ventilation and task lighting. Sharp's OTRs offer the option of venting to the outside vertically or horizontally, or recirculating when outside venting is not available. Sharp markets a convection microwave OTR that's the perfect second oven.

Over the Counter "OTC" Microwaves — Designers often look for ways to place the microwave oven in the cabinets above the counter. In the past, the only options have been to use a shelf in a wall cabinet or to build the microwave into a custom cabinet. Sharp's OTC® microwaves provide a built-in-ready solution designed for standard 24" cabinets. Each OTC microwave is equipped with an under-the-cabinet light that acts as a decorative accent light, functional task light, or serviceable nightlight. An Accessory Kit is available with two stainless steel accessory bars and eight "S" hooks, ideal for essential cooking tools.

Insight Pro® Microwave Drawer Ovens — Sharp's Microwave Drawer appliance takes the microwave off the counter and places it right at the most convenient height, making stirring food easier and safer. The angled front-mounted touch controls and superb accessibility make it ideal for anyone who uses the microwave frequently. Most importantly, the Microwave Drawer design provides a sleek, integrated look so that the microwave oven blends in -- wherever it goes. Models are available to fit both 30" and 24" installations.

SuperSteam Oven — Sharp's AX-1200 SuperSteam Oven offers a unique combination of the healthiest ways to cook, all in one versatile appliance: SuperSteam Convection, Steam, Convection and Microwave. No other oven cooks in so many healthy ways. Convenient menu driven controls are programmed to know which cooking method is best for the food selected.

Insight Pro Cooktop+Microwave Drawer® Appliance — Combining all the advantages of the Microwave Drawer oven with a smooth electric cooktop, the Cooktop+Microwave Drawer appliance is a unique kitchen planning solution that's an ideal companion for wall ovens. Easy-to-use knobs control the glass ceramic cooktop while a backlit active glass touchscreen guides the user through the microwave cooking process.

Built-in Kits for microwave ovens — Sharp offers an assortment of UL-approved kits that allow you to build many of our larger countertop models into a cabinet or wall location. Kits are available in a number of color and material options. They provide proper air circulation when the microwave oven is built into a closed location. Please refer to each individual model's operation manual (available at www.Sharpusa.com) for installation recommendations.

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OVER THE RANGE MICROWAVES

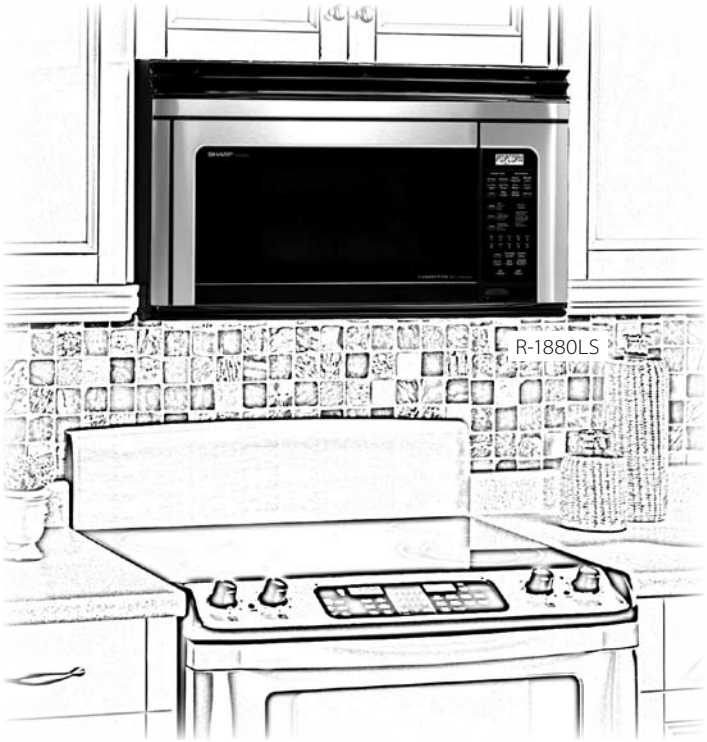
- R-1880LS, R-1870/71/72/74/75 Convection Microwaves
- R-1514 Stainless Hide & Sleek™
- R-1405, R-1406 Microwaves

PROFESSIONAL TIPS

Every Sharp Over the Range microwave can be easily adapted for either outside ventilation (vertical or horizontal) or for non-vented, ducted recirculation.

Make sure the top of the oven is at least 66" from the floor and at least 30" from the cooking surface. A separate 15 amp or greater electrical receptacle must be located in the cabinet directly above the microwave oven.

Over the Range models provide ventilation and a work light, as well as a space-saving location for the microwave. Consider the height of your clients when you consider an OTR option.


R-1880LS

R-1880LS, R-1870/71/72/74/75

- Sharp's Convection Microwave Over the Range browns, bakes, broils, crisps and roasts with microwave, convection, combination and broil options. By combining convection cooking with microwave energy, it's the perfect second oven.
- 13" diameter ceramic turntable with on/off flexibility accommodates oversized or oblong-shaped dishes.
- Automatically computes broiling, roasting and baking time and temperature settings. For microwave cooking, Sharp's Smart & Easy® Sensor automatically determines cooking times and power levels for 12 microwave favorites.

R-1405

R-1514

- Hide & Sleek™ design is clean, uncluttered and symmetrical. The Auto-Touch™ control panel is discreetly concealed behind the oven door, and its flush design fits beautifully with other appliances.
- Large 14 1/8" diameter turntable accommodates oversized or oblong-shaped dishes.
- Interactive Cooking System with Custom Help® feature includes options for English, Spanish or French. Sensor Cook® Center includes 11 sensor settings.
- Make sure the top of the OTR is at least 66" from the floor and at least 30" from the cooking surface. A separate 15 amp or greater electrical receptacle must be located in the cabinet directly above the microwave oven.

R-1514

* *For most current and complete specifications, visit www.sharpusa.com. For installation tips, visit www.sharpusa.com/microwavedrawer/installationtips.*

- R-1210/11/14

PROFESSIONAL TIPS

Sharp's Over the Counter Microwaves open new design options for kitchen designers. This space saving location offers accent and task lighting with Auto-Touch controls on the door at easy-to-read eye level.

An OTC® (Over the Counter) Microwave located in standard wall cabinets creates a perfect cook station and preparation area.

Add an OTC microwave in a wet bar or refreshment center. It's always ready so friends and family can enjoy snacks with a little wine and cheese.

Make good use of a corner space! Locate an OTC microwave in a corner using standard 27" wall cabinets and custom trim wall mounting.

FEATURES

- Over the Counter Microwave Ovens enable easy and affordable installation, including applications in corner cabinets, above islands, over food preparation areas and in nearly any wall cabinet. The OTC design saves valuable counter space and moves a step beyond other "built-in solutions" that require special kits and tools.
- Clean and uncluttered design with Auto-Touch™ Control Panel located on the oven door so the controls are easy to see and reach.
- Stainless Steel finish with smooth glass window—elegant and practical.
- Large 14 1/8" diameter Carousel® turntable—the largest turntable of any microwave oven in its class—for added capacity and versatility.
- Sensor Cook® Center includes 11 Smart & Easy® sensor settings for the most popular microwaved foods. No need to set times or power levels—and virtually no guesswork!
- Interactive Cooking System with Custom Help® feature includes options for English, Spanish or French.
- Defrost Center quickly defrosts meats and poultry by weight. Specific program for each category assures excellent, even results.
- Keep Warm Plus lets you keep hot food hot up to 30 minutes after cooking is finished with no loss of food quality.
- Instant Action™ Keys save time and make microwaving easy! Touch once for each serving—up to eight. Oven starts automatically.

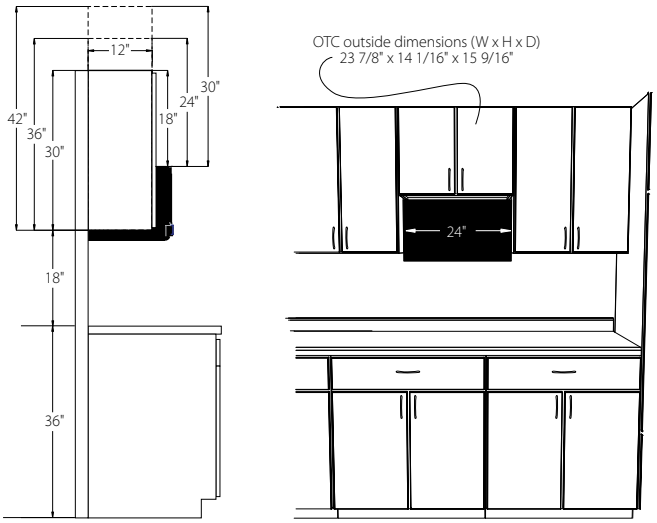
R-1214

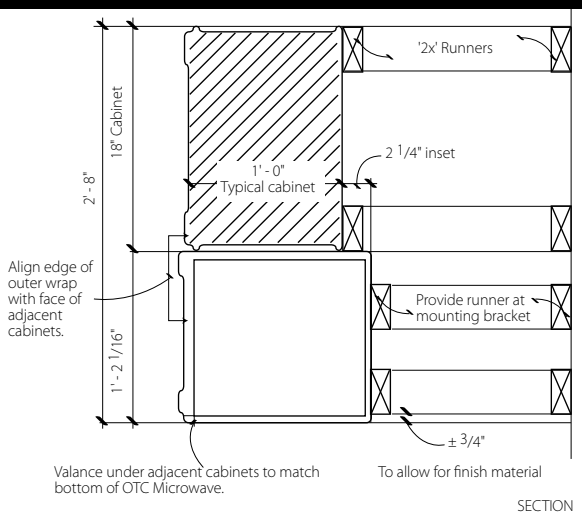
Step out center 24" cabinet forward to make an accent

* *For most current and complete specifications, visit www.sharpusa.com. For installation tips, visit www.sharpusa.com/microwavedrawer/installationtips.*

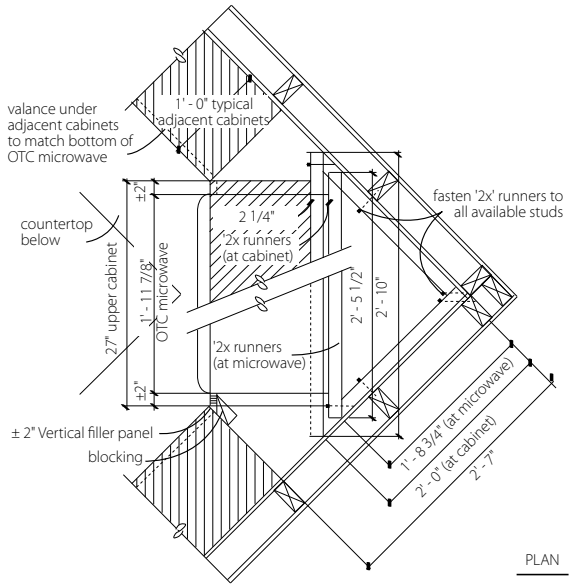
An optional accessory kit with two stainless steel accessory bars and eight "S" hooks (model number RK-OTC120) is available for Sharp OTC® microwave ovens.

Separate 15 amp or greater electrical receptacle must be located in the cabinet directly above the microwave oven.

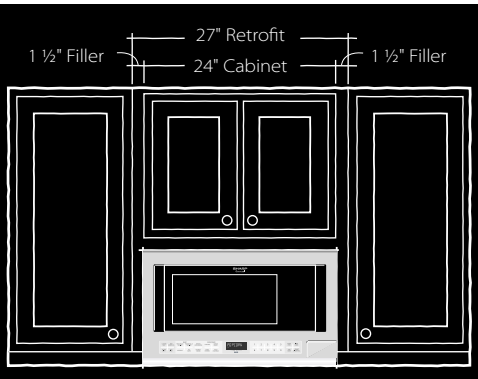


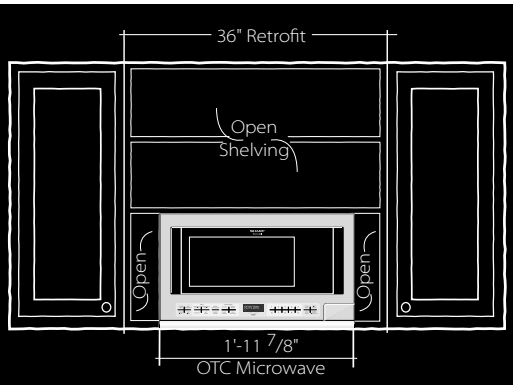

'2x' Runners
18" Cabinet
2' - 8"
2 1/4" inset
1' - 0"
Typical cabinet
Align edge of outer wrap with face of adjacent cabinets.
Provide runner at mounting bracket
1' - 2 1/16"
± 3/4"
Valance under adjacent cabinets to match bottom of OTC Microwave.
To allow for finish material
SECTION

The arrangement shown illustrates the OTC microwave located in a corner using standard 27" wall cabinets and custom trim wall mounting.



IDEAS





You can turn a blank wall into functional space. Simply mount an OTC microwave with a small cabinet above and place wall cabinets or finished panels on the side. Below, place a conventional cabinet or use a kitchen cart for a unique application and lighted work area.

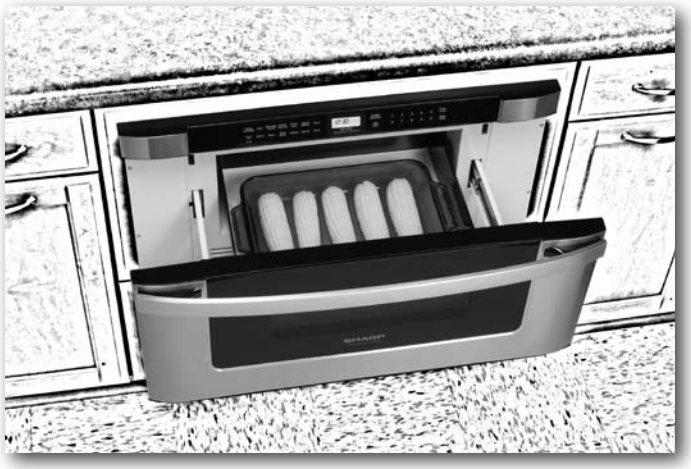
30" MICROWAVE DRAWER® OVENS

- Insight Pro® KB-6525PS/PK/PW opens with Easy Open handle or Auto-Touch™ controls
- Insight Pro® KB-6025MS/MK/MW with Easy Open handle
- Insight® KB-6002LS/LK/LW with Manual Drawer

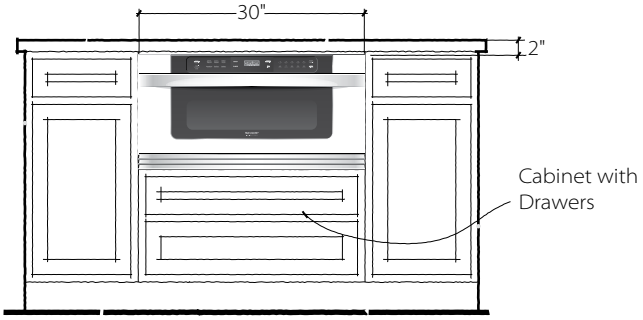
PROFESSIONAL TIPS

Kitchen designers often struggle with where to place the microwave oven and how to integrate this often-used appliance into kitchen designs. Sharp's Microwave Drawer oven takes the microwave off the counter and places it at a convenient height, making use of the microwave easier for virtually every cook in the family. It offers design flexibility and allows you to "hide" the microwave while providing superb accessibility.

The Microwave Drawer oven installs easily under a counter, cooktop or wall oven, eliminating awkward installations and cluttered countertops while freeing the space above the range for a stylish or powerful ventilation hood.



KB-6525PS



STANDARD INSTALLATION WITH DRAWERS BELOW

FEATURES

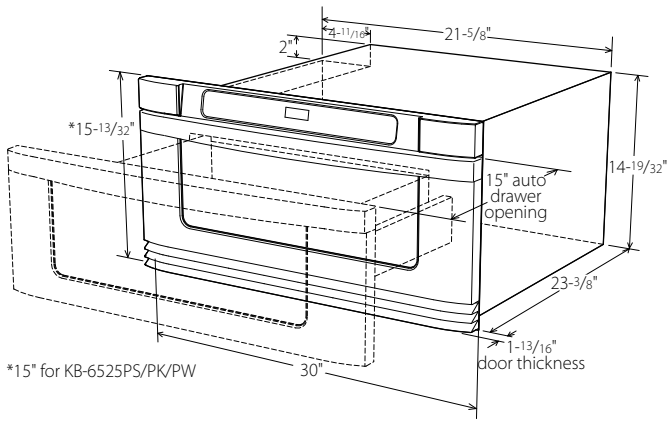
Design Flexibility
- An ideal companion to a 30" wall oven or Sharp's 30" Warming Drawer.
- Built-in ready for easy installation with no additional kit.

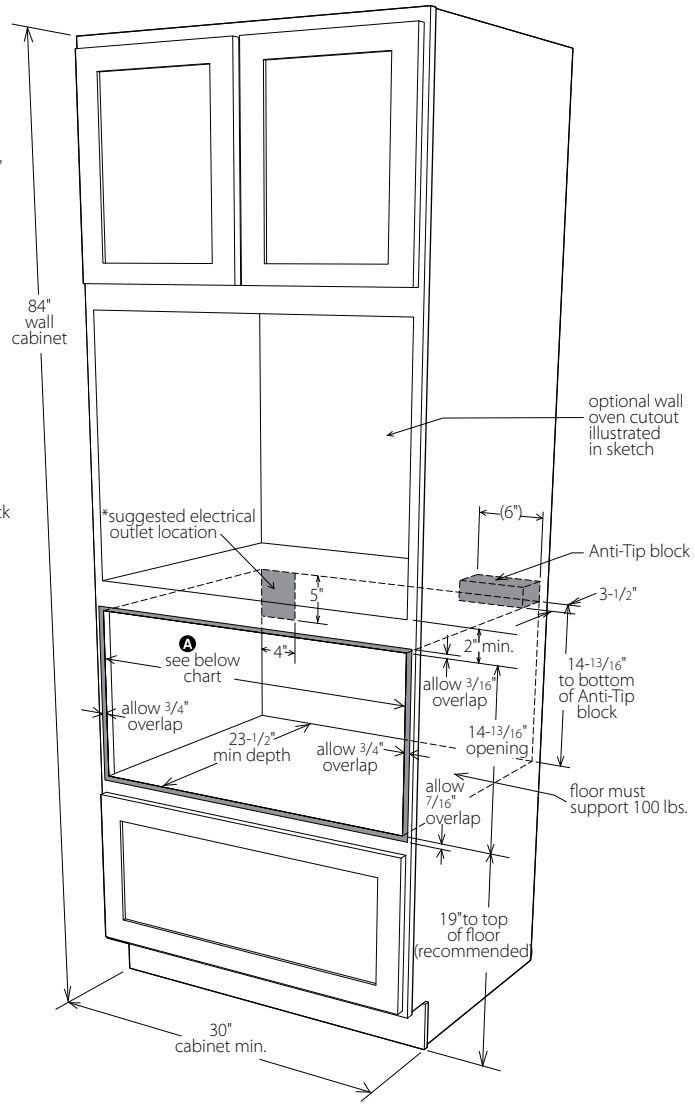
Innovative Technology
- Microwave Sensor Technology virtually eliminates guesswork.
- Microwave Keep Warm setting holds food up to 30 minutes.

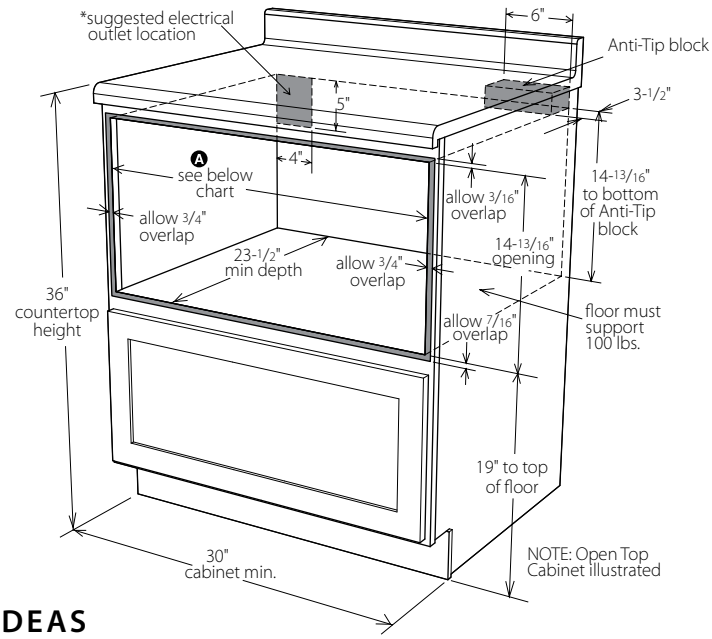
Convenience and Accessibility
- Powerful microwave is large enough to hold a 9" x 13" oblong dish.
- No need to remove dishes from the oven to check or stir.
- Angled touch controls are convenient and easy to use.

Sophisticated Style
- Integrated handle and controls lend a sleek appearance.
- Available in stainless steel, white or black finishes.

* *For most current and complete specifications, visit www.sharpusa.com. For installation tips, visit www.sharpusa.com/microwavedrawer/installationtips.*







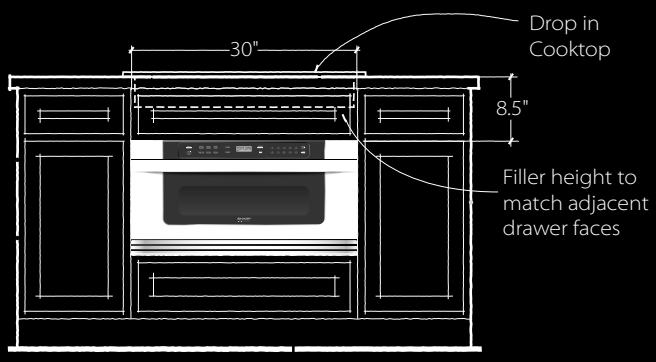
IDEAS

* *Microwave Drawer ovens can be installed below any electric or gas wall oven.*

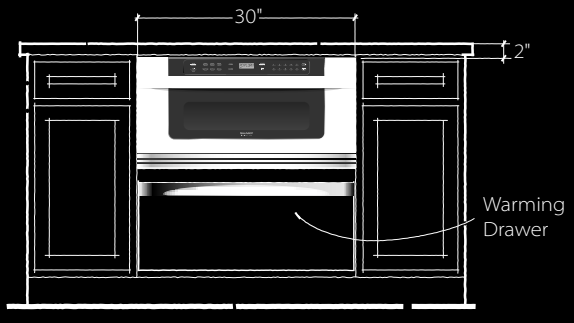
Always check the Installation Instructions for the specific appliances you are using. If you install the Microwave Drawer oven adjacent to another appliance, be sure to check the installation requirements for that appliance.

CUTOUT DIMENSIONS

A	Maximum	Minimum
KB-6002	28-7/16"	N/A
KB-6025	28-7/16"	N/A
KB-6525	28-7/16"	22-1/8"



INSTALLATION WITH DROP IN COOKTOP



INSTALLATION WITH WARMING DRAWER BELOW

* *Can also be installed using an electrical outlet in an adjacent cabinet. Always check electrical codes for requirements.*

- Insight Pro® KB-6524PS/PK/PW opens with Easy Open handle or Auto-Touch™ controls
- Insight Pro® KB-6024MS/MK/MW and KB-6021MS/MK/MW with Easy Open handle
- Insight® KB-6001NS with Manual Drawer

PROFESSIONAL TIPS

Any microwave oven location should be safe for all users and convenient for the primary users. Consider the height, ages and physical abilities of your clients who will be using the microwave.

When mounted under the counter, the Microwave Drawer oven is positioned within the universal reach range of 15" to 48", providing convenient access to foods. This location requires less bending and provides a convenient landing space on the countertop above the microwave.

The Microwave Drawer oven allows access from both the top and sides, accommodating special needs far better than Over the Range or countertop microwave models. It is ideal for Senior Housing or designs for Aging in Place.

KB-6524PS

FEATURES

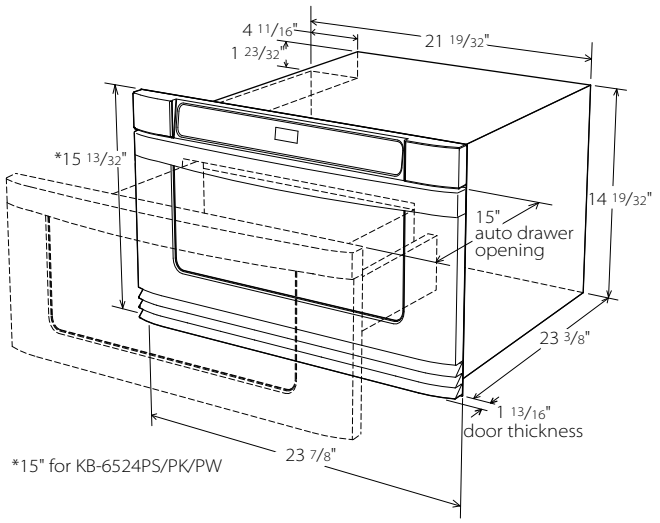
Design Flexibility
- Ideal for islands, open-plan kitchens or kitchens with few wall-hung cabinets.
- Great addition to a wet bar, family room or home theater.
- Built-in ready for easy installation with no additional trim kit required.

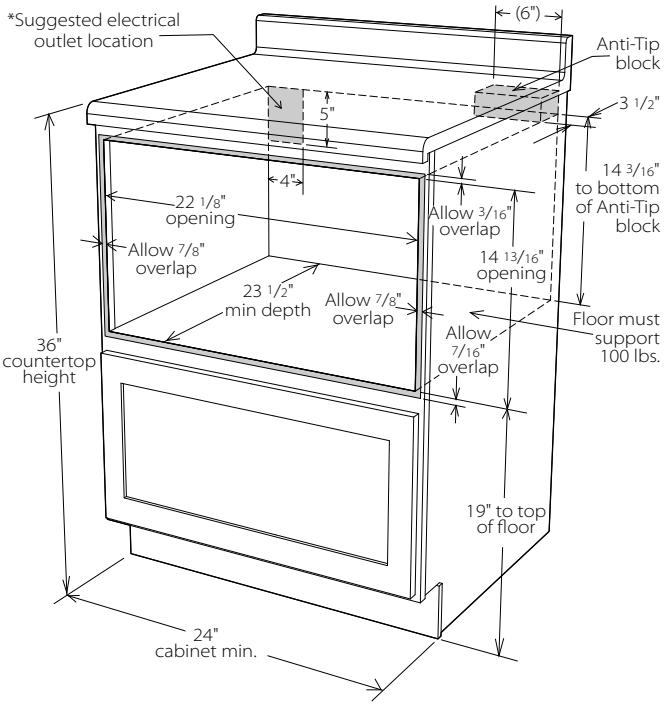
Innovative Technology
- Microwave Sensor Technology virtually eliminates guesswork.
- Microwave Keep Warm setting holds food at the ideal serving temperature up to 30 minutes.

Convenience and Accessibility
- Microwave Drawer oven is easy to open or close. Three different door opening options are available.
- Powerful microwave is large enough to hold a 9" x 13" oblong dish.
- No need to remove dishes from the oven to check or stir.
- Angled touch controls are convenient and easy to use.

Sophisticated Style
- Integrated handle and controls lend a sleek appearance.
- Available in stainless steel, white or black finish.

* *For most current and complete specifications, visit www.sharpusa.com. For installation tips, visit www.sharpusa.com/microwavedrawer/installationtips.*



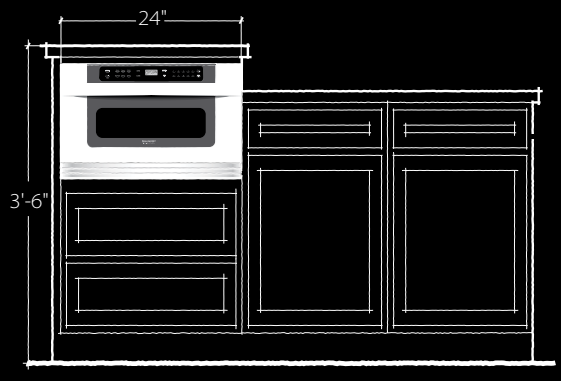


Always check the Installation Instructions for the specific model you are using. Microwave Drawer ovens can be installed below any electric or gas wall oven.

* *Can also be installed using an electrical outlet in an adjacent cabinet. Always check electrical codes for requirements.*

IDEAS

The trend is toward using freestanding furniture in the kitchen that includes built-in appliances. Why not design a piece of furniture with a 24" built-in Sharp Microwave Drawer appliance in your next project?



Manufacturers now offer many optional arrangements. Raised cabinets that elevate appliances for easy access are becoming more common. A built-in Microwave Drawer oven in one of these raised cabinets creates an ideal functional work area.

COOKTOP + MICROWAVE DRAWER® APPLIANCE

- Insight Pro® KB-5121KS/KK/KW with Electric Cooktop and Automatic Microwave Drawer Oven

PROFESSIONAL TIPS

The Cooktop+Microwave Drawer appliance is ideal for islands or open plan kitchen designs. It's a perfect companion to wall ovens.

If two people in the family often cook at the same time, consider incorporating multiple cooking centers into your design. Place one microwave oven in the primary work triangle, perhaps with a second microwave on the outer edge of the kitchen for use by family members for snacks. Sharp's Cooktop+Microwave Drawer appliance is ideal for larger kitchens with multiple cooking centers.

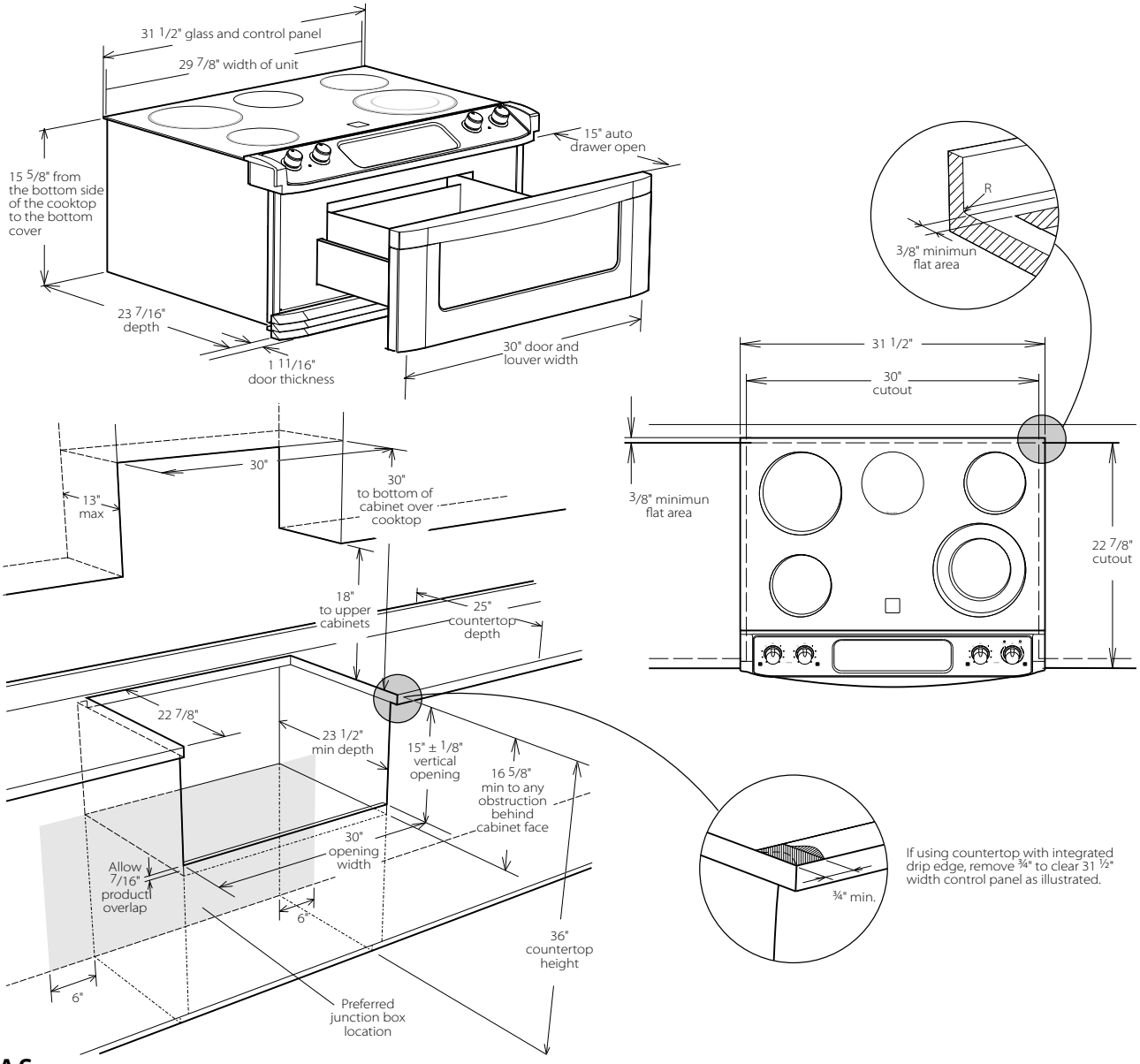
The Cooktop+Microwave Drawer combination design eliminates many steps between appliances and makes for an efficient workspace.

KB-5121KS

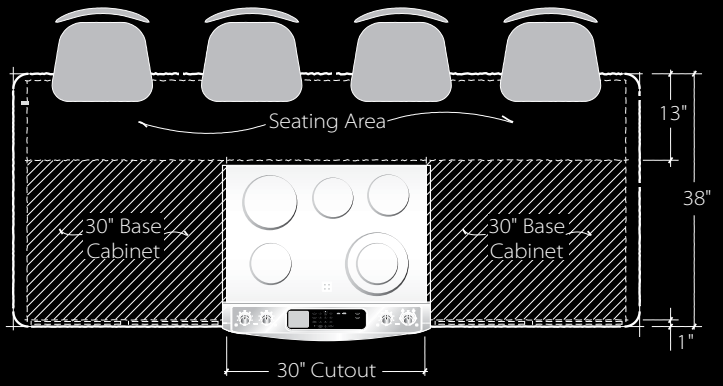
FEATURES

- Combines an electric cooktop with Sharp's Microwave Drawer oven, all in one 30" wide appliance.
- Drawer opens automatically with one touch.
- Front-mounted Glass Touchscreen is lighted and angled — easy to see, easy to use and easy to clean.
- Active Touchscreen Control guides you with step-by-step directions and helpful tips. It teaches you how to use the microwave not only for reheating and defrosting, but also for cooking!
- Microwave Sensor Technology means virtually no guesswork.
- Automatic Options include 36 food categories for cooking, 6 for reheating and 6 for defrosting. On-screen microwave recipes make mealtime more interesting with a selection of 16 delicious new dishes.
- Electric Glass Ceramic Cooktop features infinite heat controlled by easy-to-use knobs. One dual-use 6"/9" ribbon heating element, one 8" and two 6" ribbon heating elements provide convenience and flexibility.
- Cooktop Warming Zone makes meal coordination simple.
- Microwave Keep Warm holds food up to 30 minutes—it's a warming drawer inside the microwave!
- Powerful 1000W Microwave is large enough to hold a 9" x 13" oblong dish.
- Built-in Ready for easy installation with no additional trim kit or ventilation required.

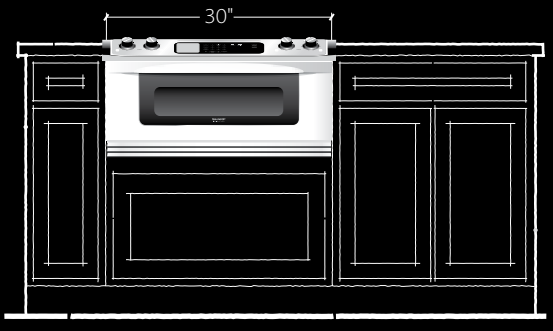
* *For most current and complete specifications, visit www.sharpusa.com. For installation tips, visit www.sharpusa.com/microwavedrawer/installationtips.*


31 1/2" glass and control panel
29 7/8" width of unit
15" auto drawer open
15 5/8" from the bottom side of the cooktop to the bottom cover
23 7/16" depth
1 11/16" door thickness
30" door and louver width
R
3/8" minimun flat area
31 1/2"
30" cutout
3/8" minimun flat area
22 7/8" cutout
30"
13" max
30" to bottom of cabinet over cooktop
18" to upper cabinets
25" countertop depth
22 7/8"
23 1/2" min depth
15" ± 1/8" vertical opening
16 5/8" min to any obstruction behind cabinet face
30" opening width
Allow 7/16" product overlap
6"
36" countertop height
6"
Preferred junction box location
¾" min.
If using countertop with integrated drip edge, remove ¾" to clear 31 ½" width control panel as illustrated.

IDEAS



ISLAND COOKING AND PREPPING AREA WITH SEATING



The drawer location, with its easy viewing of food and controls, is more convenient for most cooks than other below-the-counter location options.

- AX-1200S/K

PROFESSIONAL TIPS

The AX-1200 offers 4 cooking methods in a convenient, easy to use appliance. SuperSteam Convection, Steam, Convection and Microwave all in one. It's the perfect second oven and can be built-in above any electric wall oven, warming drawer or Sharp Microwave Drawer oven with the optional RK-12S30 kit. The installation is simplified by the water reservoir, there's no expensive plumbing to install and the 115 volt/15 amp electrical requirements.

AX-1200S

* *AX-1200K with RK-12S30 Built-in Kit (stainless) installed in 30-inch wall oven cabinet with storage cabinets above and below.*

FEATURES

Design Flexibility

- Built-in design coordinates with other Sharp Insight® and Insight Pro® appliances. To create a unique cooking center, build the Sharp SuperSteam Oven above a Sharp Microwave Drawer or Warming Drawer.
- Build into a 30-inch wall oven cabinet with Sharp's deluxe built-in kit.

Innovative Technology

- There are 43 automatic settings for SuperSteam Convection, Steam and Microwave cooking, providing the correct time, temperature or power level for reliably delicious results.
- Balanced Meals setting automatically cooks complete meals in 25 minutes.
- SuperSteam, Convection, Steam and Microwave Technology

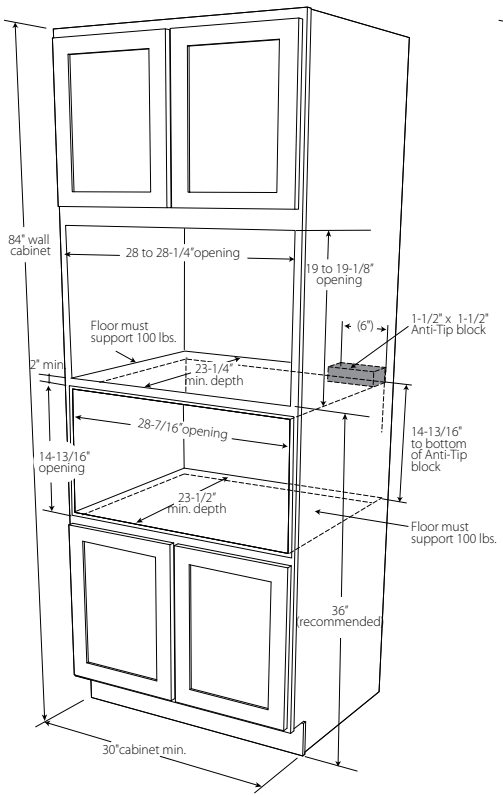
Convenience and Accessibility

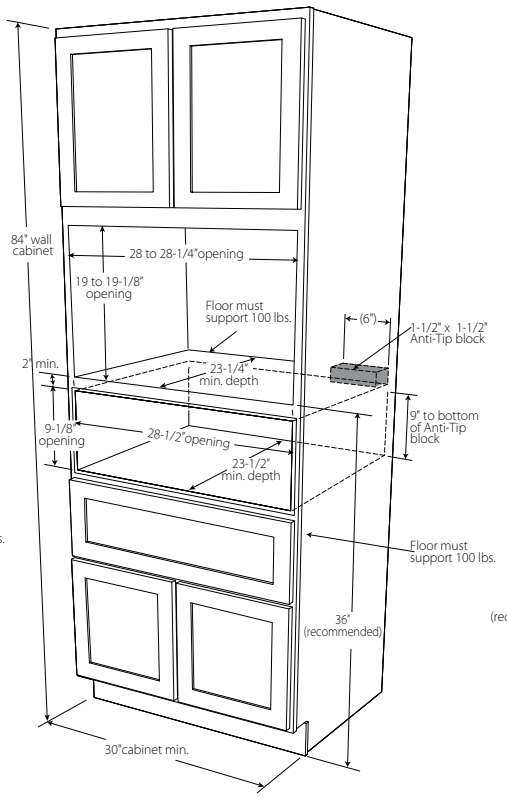
- Visual prompts in the large Liquid Crystal Display enable easy operation based on food categories.

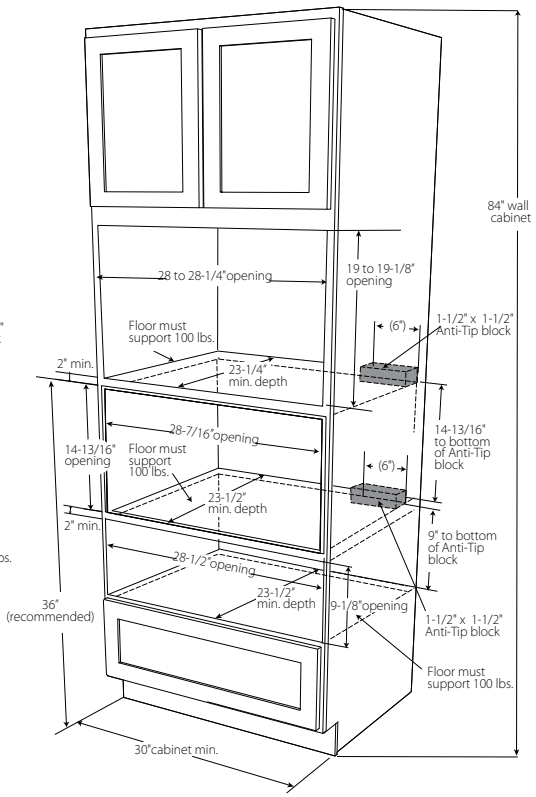
Sophisticated Style

- Integrated handle and controls lend a sleek appearance.
- Available in stainless steel or black finishes.

* *For most current and complete specifications, visit www.sharpusa.com. For installation tips, visit www.sharpusa.com/microwavedrawer/installationtips.*







COMBINATION INSTALLATION

* *See product installation manual for electrical requirements.*

Build in the SuperSteam oven above a Sharp 30-inch Microwave Drawer oven.

This cooking and entertainment center features an AX-1200K built-in above a KB-6100NS 30-inch Warming Drawer.

This cooking and entertainment center features an AX-1200K built-in above a Sharp KB-6025MS 30-inch Microwave Drawer oven and KB-6100NS 30-inch Warming Drawer.

BUILT-IN KITS

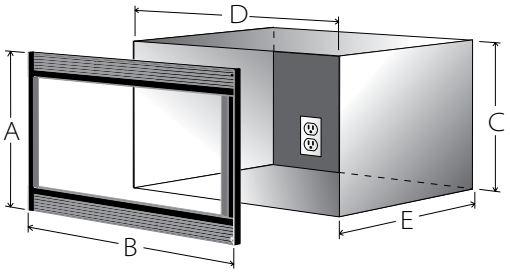
R-930CS

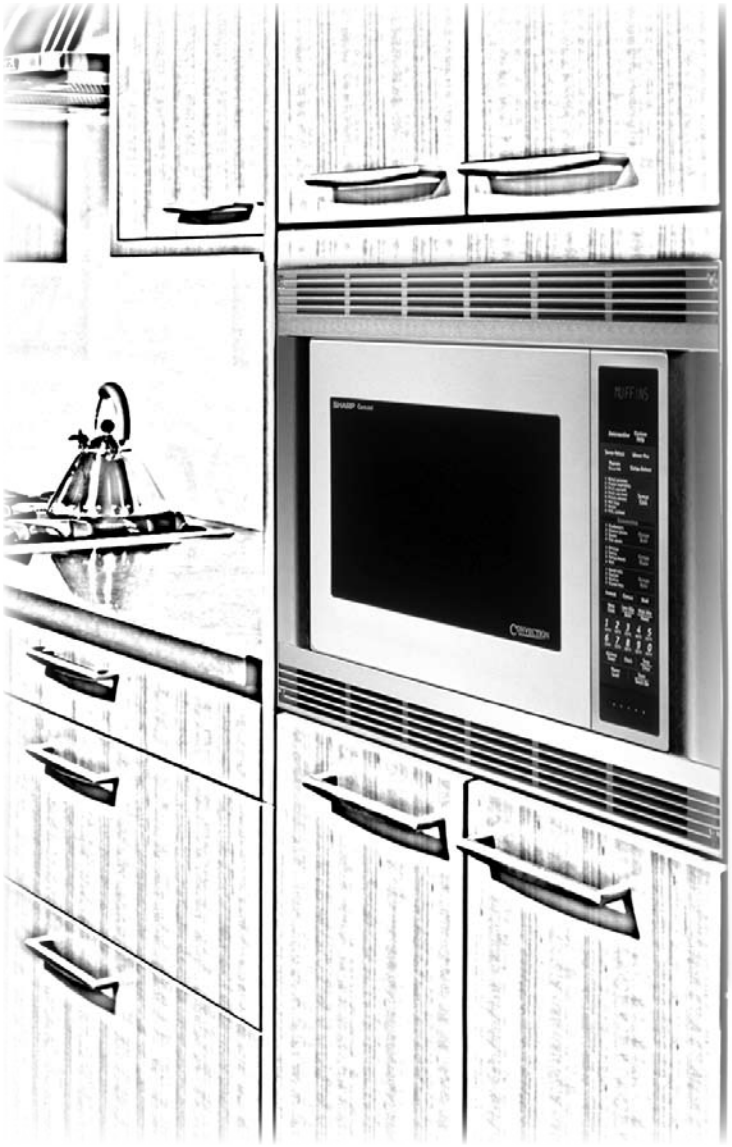
PROFESSIONAL TIPS

When building in a Sharp countertop microwave oven, be sure to use the proper Sharp built-in kit. All Sharp kits are UL approved and provide ductwork to assure proper air circulation around the product.

Not all microwave ovens can be built-in. Check the nameplate and/or carton of the microwave oven for the correct built-in kit. This information is also at www.sharpusa.com. Operation Manuals and Installation Instructions can be downloaded from the Sharp website.

Never enclose a microwave oven so tightly that air cannot circulate around it. It will not function properly in a tight enclosure.





Sharp offers a variety of Built-in Kits for Full Size and Family Size models. Prepare cabinet or wall opening to provide access to a separate 3-pronged, 120V AC outlet of 15 amps or larger. Please refer to operation manual for installation recommendations.

		DIMENSIONS				
BUILT-IN KIT MODEL#	MICROWAVE MODELS	A	B	C	D	E
RK-44K/W/S24 (24")	R-426LS, R-425LS, R-408LS, R-405KS, R-402JK/JW, R-420LK/LW, R-410LK/LW	17 1/8"	23 11/16"	15 11/16" to 16"	22 1/16" to 22 3/8"	Min. 20 3/8"
RK-51/RK-51W (27")	R-530EK/EW, R-520LK/LW	18 1/8"	27"	16 3/4" to 17"	24 3/8" to 24 11/16"	Min. 20"
RK-51S27* (27")	R-530ES*	18 1/8"	27"	16 3/4" to 17"	24 3/8" to 24 11/16"	Min. 20"
RK-51K/W/S30* (30")	R-530EK/EW/ES*, R-520LK/LW*	18 1/8"	29 7/8"	16 3/4" to 17"	24 3/8" to 24 11/16"	Min. 20"

* *This model can be built into a cabinet or wall by itself or above any electric wall oven or warming drawer using the appropriate Sharp Built-in Kit. It cannot be built-in above any gas wall oven.*

* *For most current and complete specifications, visit www.sharpusa.com. For installation tips, visit www.sharpusa.com/microwavedrawer/installationtips.*

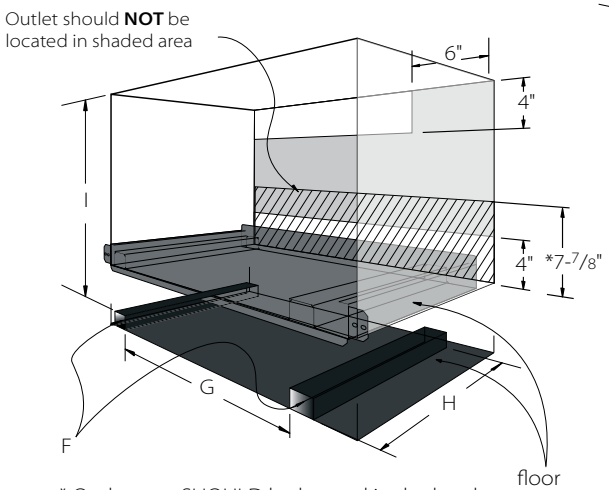
Sharp offers a variety of Built-in Kits. Prepare cabinet or wall opening to provide access to a separate 3-pronged, 120V AC outlet of 15 amps or larger. Please refer to operation manual for installation recommendations.

Dimensions	BUILT-IN KIT MODEL# FOR MICROWAVE MODELS				
	RK-82K (24") for R-820BK	RK-66A/RK-66W (27") for R-930AK/AW †	RK-93S27 (27") for R-930CS †	RK-93S30 (30") for R-930CS †	RK-12S30 (30") for AX-1200K/S
A	16-11/16"	19-7/8"	20-1/8"	20-1/8"	19 1/2"
B	22-3/4"	26-7/8"	26-7/8"	29-7/8"	30"
C	16-1/16" ± 1/8"	17-7/8" (+ ht. of wood)	17-1/8" (+ ht. of wood)	17-1/8" (+ ht. of wood)	19-1/8"
D	21" ± 1/8"	25-1/4" ± 1/8"	25-1/4" ± 1/8"	28-1/4" ± 1/8"	28 - 28 1/4"
E	Min. 19-1/4"	Min. 19-1/2"	Min. 19-1/2"	Min. 20-1/8"	23-1/4"
F	nominal 2" x 2" actual: 1-9/16" x 1-9/16"	nominal 2" x 2" actual: 1-9/16" x 1-9/16"	nominal 2" x 2" actual: 1-9/16" x 1 9/16"	nominal 2" x 2" actual: 1-9/16" x 1-9/16"	—
G	15" ± 1/8"	18-3/8" ± 1/8"	18-3/8" ± 1/8"	18 3/8" ± 1/8"	—
H	16-1/2"	15"	15-5/8"	15-5/8"	—
I	14-1/2" ± 1/8"	17-1/8"	17-1/8"	17-1/8"	—

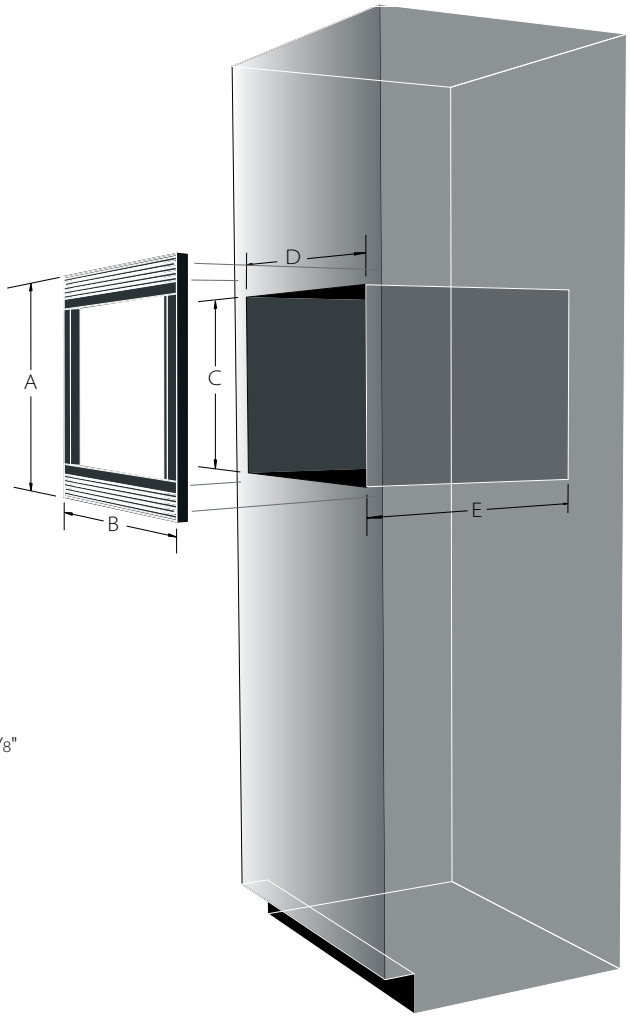
† *This model can be built into a cabinet or wall by itself or above any electric wall oven or warming drawer using the appropriate Sharp Built-in Kit. It cannot be built-in above any gas wall oven.*

The outlet should NOT be located in the shaded area indicated in the illustration below unless there is a depth of more than 21" from the front to the back, then the outlet may be located at any location on the rear wall.

The floor of the opening should be constructed of plywood strong enough to support the weight of the oven (about 100 pounds). The floor should be level for proper operation of the microwave. Be sure to check the local building code as it may require that the opening be enclosed with sides, ceiling and rear partition. The proper functioning of the microwave does not require the enclosure.



* Outlet area SHOULD be located in the hatch marked area ONLY for RK-12S30.



* *To receive the most current specifications, visit www.dexpress.com/sharp or call Dimension Express at 925-284-3558 from a fax machine. Enter code 9026 for instructions and a directory of Sharp appliance products.*

ASSISTANCE & REFERENCES

DIAL 1.800.BE.SHARP (1.800.237.4277)

- Service (for nearest Sharp Authorized Servicers)
- Parts (for authorized parts distributors)
- Additional Customer Information
- Accessories and Cookbook Information

WEBSITE

www.sharpusa.com/appliances

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20-20 ELECTRONIC CATALOG

Visit www.2020technologies.com to access the business-to-business portal 2020.net where 20-20 users, who are current on their support and maintenance plan, can download the electronic catalog through the Update Center, or download from the link at www.sharpusa.com. Selected models are available in 20-20.

20 20 TECHNOLOGIES

* *Product specifications, design and installation recommendations are subject to change without notice.*

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